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DRINKING WATER & CHA

January 14, 2014

State of Wisconsin – Private Water Systems DG/2 Box 7921 Madison, Wi. 53707

Re: Thelen Sand & Gravel - proposed irrigation well - Town of Randall, Wi.

To Whom It May Concern,

Joseph H. Huemann & Sons, Inc. has drilled a 7-7/8" diameter soil boring on November 15, 2013. We have determined 30' of usable gravel from 179' to 209'. The drill hole was sealed with bentonite slurry and capped with 10' of chipped bentonite. The GPS coordinates for this borehole are Lat 42 31.539 and Long 88 12.715.

Enclosed is the application for a high capacity non-potable well for the above mentioned customer. We are requesting a variance for the well casing that we intend to use, since it does not meet ASTM F480. The well casing does meet ASTM D1785 specs. I have attached pipe specifications and intend to use schedule 80 casing. We will be hiring Albrecht Well Drilling to drill this well and they are located at 19594 – 2600 North Ave., Ohio II. 61349. Their phone number is 815-376-2811.

Should you require any additional information, please contact Jeff Huemann at 815-385-0414 or jeff@humannwelldrilling.com. Thank you for your assistance with this application.

Respectfully,

John J. Huemann

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State of Wisconsin Department of Natural Resources Private Water Systems Section - DG/2 dnr.wi.gov

High Capacity, School or Wastewater Treatment Plant Well Approval Application Form 3300-256 (R 7/05)

Notice: Prior department approval is required for the construction, reconstruction or operation of a high capacity well or system of high capacity wells, a property wells, a property of a wastewater treatment plant well in accordance with Section NR 812.09(4)(a), Wisconsin Administrative Code. Personally identifiable information collected on this form including such data as your party of the construction of a high capacity well or system of high capacity wells, a property of the construction of a high capacity well or system of high capacity wells, a property of the construction of a high capacity well or system of high capacity wells, a property of the construction of a high capacity well or system of high capacity wells, a property of the construction of a high capacity well or system of high capacity wells, a property of the construction of a high capacity well or system of high capacity wells, a property of the construction of a high capacity well or system of high capacity wells, a property of the construction of a high capacity well or a wastewater treatment plant well in accordance with Section NR 812.09(4)(a), Wisconsin Administrative Code. Personally identifiable in the construction of the construc information collected on this form, including such data as your name, address and phone number, will be used for management of department programs and is unlikely to be used for other purposes. This information will be addressable under Wisconsin's Open Records Laws, ss. 19.32 - 19.39, Wis. Stats.

Use this form to request an approval for installation of a well or wells on a high capacity property, seek approval to make other changes to a high capacity property or to modify a well on a high capacity property, as required by NR 812.09(4)(a), Wisconsin Administrative Code. Refer to definitions of high capacity well, high capacity property and high capacity well system on page 5.

This form is not intended to be used when seeking approval for construction or modification of wells serving water systems regulated under ch. NR 811, Wis. Adm. Code. Any water system serving 7 or more homes, 10 or more mobile homes, 10 or more apartments, 10 or more condominiums, or 10 or more duplexes is regulated under ch. NR 811, Wis. Adm. Code. See NR 811.01, Wis. Adm. Code for applicability requirements.

Applicant Information		* Harris	III			
Application Prepared By (Name and Title)		Company		,	-	
Jeff Huemann		Jos.	H. H	vengen	F	SONS INC
Street Address		City			State	ZIP Code
5205 RT 31		Rin	5W009		IC	60072
	Fax Number		E-Mail Addr	ess		W.C. (a. 7.7
815-385-0414	815-728-8	406	Jeft	- @Hue,	Mgn	welldrilling
Property Ownership Information						
Property owner, if different than applicant (Name of Person and Title)	Company	,		1	/
STEVE Thelen F	residenT	Thel	en S	and &	Gro	
Street Address		City			State	ZIP Code
28955 RT 1	73	ANT	ioch		16	60002
Telephone Number	Fax Number		E-Mail Addr			
847-838-8820	847 395-39	452	Thele	en@ The	elen	SG. COM
Well Operator Information						
Well operator if different than owner (Name	e of Person and Title)	Company				
Street Address		City			State	ZIP Code
		U 1817				
Telephone Number	Fax Number		E-Mail Addr	ess		
Property Information						
Enter the High Capacity Well File Number be	elow if the property is already a	high capacity	property. If t	he property is no	t design	ated as a high capacity
property at the time of application, enter "NO or use the compact disk of departmental well	NE." NOTE: Find the file numb	per in upper ri	ght hand corr	ner of the most re	cent hig	h capacity well approval,
"Location" section. File number format is as f	follows: (1 or 2 digits for county) - (1 digit for	well classifica	ation) - (1 to 4 dig	its for as	ssigned property no.).
County	Town	1		High Capacity W	ell File	No.
Benosha	Randal					
Submittal Purpose						_
Check all that apply:						
Install one or more new wells with a	a capacity greater than 70 g	allons per m	inute.			
Install one or more new wells with a capacity less than 70 gallons per minute on a high capacity property.						
Replace one or more wells with a capacity greater than 70 gallons per minute.						
Replace one or more wells with a capacity less than 70 gallons per minute on a high capacity property.						
Reconstruct one or more wells with a capacity greater than 70 gallons per minute.						
Reconstruct one or more wells with a capacity less than 70 gallons per minute on a high capacity property.						
Increase pumping rate in one or more wells to a rate greater than previously approved.						
Request continued operation of high capacity wells after a change in ownership. (No application fee required.)						
Renew a previous approval that has expired.						
Well (or wells) will serve a school or wastewater treatment plant. See definitions on page 5.						
Other explain						

Site Status Information Determine the site status using the internet or the compact disk of departmental well data that is issued to drillers and pump installers and the information supplied by the property owner. Internet address is dnr.wi.gov/org/water/dwg/dws.htm. Enter YES or NO for each of the following questions. YES NO Has the property boundary changed since the most recent high capacity well approval was issued? If the property is not yet a high capacity property, check NO. Has there been a change in well ownership since the last approval was written? Date of purchase: If YES, name of current owner: Has there been a change in well operator since the last approval was written? If YES, name of current operator: Date of change: Will a proposed well be connected to a plumbing system that is supplied by other sources (other wells, municipal supply, etc.)? If YES, include a schematic drawing showing backflow protection. Is a proposed well within 1,200 feet of a landfill? Determine if there are any landfills nearby, using the well information compact disk FIND feature. Enter the township, range and section of the well location. If the well is near a section line, also check the adjacent section or sections. If YES, list the landfill site ID Number: Landfill location: (Township/Range/Section) OR Is a proposed well on a property that has a contaminated site? If YES, list the BRRTS (Bureau for Remediation and Redevelopment Tracking System) Number here and specify if the site is open or closed: Closed J Open Is a proposed well on a property that has a groundwater use restriction recorded on the deed? If YES, list the BRRTS number, as assigned to the contaminated site by the DNR remediation and redevelopment program: Is a proposed well on a property that is listed on the department's registry of closed remediation sites for a groundwater use restriction? See compact disk or internet at maps.dnr.state.wi.us/imf/dnrimf.jsp?site=brrts. If YES, list the BRRTS Number here: Is a proposed well to be used for a public water supply system that serves 25 or more people? See definition of a "public water system" in the definitions section on page 5. Is a proposed well to be installed within a special casing area? Refer to the list of special casing areas that is published X by the department and/or contact the regional DNR office. Has the number of wells or pumping capacity in an existing well increased since the most recent high capacity well approval was issued? Has the number of wells decreased since the most recent high capacity well approval? If the property is not yet a high capacity property, check NO. Is a non-pressurized storage vessel (i.e. reservoir) other than a pond proposed or in use?

Will the well discharge directly to a storage pond?

Is a pressurized tank with a capacity greater than 1,000 gallons proposed or in use?

Is a proposed well within 1,200 feet of a quarry?

Is a proposed well located in a floodplain or floodway?

Are any existing well installations on the high capacity property out of compliance with Chapter NR 812, Wisconsin Administrative Code?

Will the well be used as a source of bottled water?

Are you seeking a variance to construct a well that has a capacity of less than 70 gallons per minute to low capacity well construction standards?

Is the property served by a community water system?

Existing Well Information						
Enter the following information on	all existing wells on the p	roperty, if more than fou	r wells, submit ad	ditional sh	neets:	
Well Name Assigned by Well Owner (North Well, etc.):	North Imighion	North Farm	1			
Well Number Assigned by Owner (001, 002, etc.):	004	002				
WI Unique Well Number or NA if no number:	UE 978	NA				
Permanent DNR High Capacity Well Number or N/A if none:	72194	72192				
Public Water System ID Number, if Public (if not public, NONE):						
Potable or Non-Potable Use:	NON-Potable	Potable				
Type of Well (Irrigation, Industrial, Residential, etc.):	Irrigation	Residential				
Requested Average Water Usage per Day in Gallons:						
Requested Maximum Water Usage per Day in Gallons:						
Seasonal? (April to October, Year Around, etc.):	April - October	year round				
Approved Pumping Capacity if Previously Approved (gpm):						
Current Pump Type & Capacity (gpm):	Sub-800 gm	506-10 gpm				
Proposed Pump Type & Capacity If Change Requested (gpm):						
Pump Discharge Type (Over Top of Casing Seal, Pitless, etc.):	Over TOP	pitless				
Discharge Location (Building Pressure Tank, Pond, etc.):	Pivot	Building				
Height of Well Casing Above Ground in Inches:	20"	14"				
Potential Contaminant Sources and Distance:	See MAP	See map				
Well Loc: Quarter Quarter Section	Sw 1/4 of SE 1/4	Sw 1/4 of SE 1/4	1/4 of	1/4	1/4 of	1/4
or Government Lot Number						
Section or French Long Lot No.	23	23				
Township:	T / N	T / N	Т	N	T	N
Range (Select E or W):	R /9 ⊠E □W	R 19 XE □V	V R]E 🗌 w	R	□E □w
Latitude (Degrees and Minutes)	42.31.656		· o	'	0	
Longitude (Degrees and Minutes)	88.12658				0	
GPS Map Datum (WGS84,						
WTM91, etc.) Include as much of the following inform well construction record is attached, ap	Lation as practical for wells the oplicant may leave the following.	l nat do not have well constru ing rows blank.	I uction records attach	ned to the a	application, howe	ever if the
Date of Construction:						
Drilled by (Name of Drilling Firm):						
Drilling Method(s) (Rotary, Percussion, Etc.)	Rev Rotary					
Well Depth in Feet:	205					
Upper Enlarged Drillhole Diameter in Inches and Depth in Feet:	20 inches, 205 feet	inches, fee	t inches,	feet	inches,	feet
Lower Drillhole Diameter in Inches and Depth in Feet:	inches, feet	inches, fee	t inches,	feet	inches,	feet
Well Casing Diameter in Inches and Depth in Feet:	14 inches, feet	5 inches, fee	t inches,	feet	inches,	feet
Well Casing Material and Wall Thickness:	Puc	sTee/				
Annular Space Material Between Casing and Drillhole Wall:						
Is There a Well Screen (Y or N) If so, Screen Material?:	Yes S.S.					

Proposed Well Information			
Enter the following information on all	proposed wells on the property, if more than two wells	s or alternate construction, submit ad	ditional sheets:
Well Name Assigned by Well Owner (North Well, etc.):	Central Imagion		
Well Number Assigned by Owner (001, 002, etc.):	605		
Well Loc: Quarter Quarter Section or French Long Lot Number	NE 1/4 of NW 1/4 of Section 26	1/4 of 1/4 of 5	Section
or Government Lot Number			
Township & Range (Select E or W)	t / N,R /9 ⊠E □W	T N, R	LE LW
Latitude (Degrees and Minutes)	42 · 31.539 ·	·	
Longitude (Degrees and Minutes)	088 0 12.715		
GPS Map Datum (WGS84, WTM91, etc.)			Potable
Type of Well (Irrigation, Industrial, Residential, etc.):	Type: Irrigation Potable Non-Potable	Туре:	Non-Potable
Drilling Method(s) (Rotary, Percussion, Etc.): Anticipated Geological Materials and D	Peverse Rofary Pepths that Are Expected During Drilling:		
Material and Depth Interval:	Gravel & Sand from 0 to 42.	from	0' to '
Material and Depth Interval:	Grey c/ay from 42 to 153.	from	' to '
Material and Depth Interval:	Clay & stave/ from 153 to 163 .	from	' to '
Material and Depth Interval:	C/94 from/63 to /79	from	' to
Material and Depth Interval:	Grave / from 179 to 209.	from	' to'
Drillhole Diameter and Anticipated Dep	oth Intervals:		
Diameter and Depth Interval:	20" from 0 ' to 209'	from	' to '
Diameter and Depth Interval:	from ' to '	from	' to '
Diameter and Depth Interval:	from ' to '	from	' to '
	nd Wall Thickness at Anticipated Depth Intervals:	1	
Diameter and Wall Thickness at Depth Interval:	14 " diam/ 750" thick 0' to /79 .	" diam/ " thick	0 ' to '
Diameter and Wall Thickness at Depth Interval:	" diam/ " thick ' to '	" diam/ " thick	' to '
Permanent Casing or Liner Material, It Casing Joints (Welded, T and C,			
etc.)	Cement weld		
Material and Weight at Depth Interval:	Sch80 puc Ibs/foot 0' to .	/ lbs/foot	0' to '
Material and Weight at Depth Interval:	/ lbs/foot ' to '	/ lbs/foot	' to '
Screen Material, Slot Size in Inches and Depth Interval or N/A if none:	Stainless 1.60.1179. 10209.	, , , , , , , , , , , , , , , , , , , ,	' to '
Casing to Screen Joint (Welded, T and C, K Packer, etc.)	Cenery weld		
Annular Space Material Including Filte	r Pack Material, If Used:		
Material and Depth Interval:	MUD sturry (cuttings 0' to /70.	1	0 ' to '
Material and Depth Interval:	Grave / pack 1/10 to 209	1	' to '
Proposed Average Water Usage Per Day in Gallons: Proposed Maximum Water Usage Per	,		
Day in Gallons: Seasonal? (April to October, Year			
Around, etc.):	April to october		
Proposed Pump Type & Capacity (gpm):	submersible - 800 gpm		
Discharge Type (Over Top of Casing Seal, Pitless Adapter or Unit):	over Top		
Discharge Location (Building Pressure Tank, Pond, etc.):	PIVOT		
Distance and Direction to Nearest Public Utility Well & Well Name:			
Distance to Other Potential Contaminant Sources:	280' COW Yard		
Distance to Other Potential	250 compre abouting	/	
Contaminant Sources: Leave Blank, for Department use only	Jewa Jewa Je 4 350 por 1000		
	(II)		

Required Attachments

- Attach one of the maps described in A. or B., below. Plot the existing and proposed well locations on the map. For wells that have a Wisconsin Unique Well Number or a Permanent High Capacity Well Number, plot the well locations with one of those numbers.
 - A. Copy of a plat map with the property boundary clearly shown. If the property is contiguous with properties owned by the same owner in another township, include a copy of that township map too, showing the property boundaries. If the property owner listed on the plat map is different from the current owner, list the date or dates, that the current property owner purchased the property on the map.
 - B. Map of the property prepared by a licensed land surveyor and the property description as described by the surveyor.
- 2. Sketch map showing all of the following that are planned or exist within 300 feet of each proposed well: proposed well location; other wells; property boundary; wetlands; potential contaminant sources (septic tank and drainfield, petroleum storage tanks, sewer lines, etc.); buildings and north arrow. If no pertinent features to map within 300 feet of the proposed well, for example an irrigation well in the middle of a field, state that on the property map listed above and plot the well locations on that map.
- 3. Any well construction records available for existing wells on the property. Do not attach any well construction records for wells that are not on the property. If a Wisconsin Unique Well Number has not been assigned, write a well name or site well number on the record that correlates to the well name or number plotted on the maps.
- 4. For proposed wells with a capacity greater than 400 gallons per minute, include the performance curve or performance table that is provided by the pump manufacturer. If the pump will be a lineshaft turbine, provide a curve with the same rpm as the motor under full load and list the motor horsepower.
- 5. If more than one well is connected to a common plumbing system, also provide a schematic drawing of the system showing method of preventing backflow. This sketch must include the well discharge (pitless, over top of casing sanitary seal); the water line from the well; pressure tanks; sampling faucets; check valves; backflow preventers; air gaps; manually operated valves; water meters; pressure switches for pumps; and any other pertinent fittings. This schematic drawing must also identify which of these components are buried or above ground. If there is more than one check valve within the well casing, include in-well check valves on the schematic.
- 6. If reconstruction of an existing well is proposed, include a diagram of the current well construction and a diagram of the proposed construction.
- 7. If the application is for a high capacity well or wells, a \$500.00 check payable to the Department of Natural Resources, unless the application is only for continued operation after a change of ownership.

Certification and Applicant Signatures

If the application requests a variance for a well within 1,200 feet of a landfill, a well on a property with a groundwater use restriction, or any other variance to NR 812, Wis. Adm. Code, the property owner must sign the application. If the well operator will install a well on property that he or she does not own, the property owner must also sign the application. Otherwise, an agent of the owner may sign the application.

Unsigned and incomplete applications will not be approved.

By signing this form, the person signing this application certifies that to the best of his or her knowledge, all existing well installations on the property comply with ch. NR 812, Wis. Adm. Code. The person also certifies that to the best of his or her knowledge, all information in the application is accurate and correct.

Name - Print		Check Box	
STEUEN THELEN	1 PRESIDENT	Owner 🔀	Agent of the Owner
Signature Signature	Company THELEN SAU	+GRAUEL IN	Date C 1-14-14
Application submittal. Mail completed application a Section - DG/2, PO Box 7921, Madison WI 53707-		achments to DNR, F	rivate Water Systems
Definitions from Wisconsin Administrative Code)S		

"High capacity well" means a well constructed on a high capacity property. [NR 812.07(51)]

"High capacity property" means one property on which a high capacity well system exists or is to be constructed. [NR 812.07(52)]

"High capacity well system" means one or more wells, drillholes or mine shafts used or to be used to withdraw water for any purpose on one property, if the total pumping or flowing capacity of all wells, drillholes or mine shafts on one property is 70 or more gallons per minute based on the pump curve at the lowest system pressure setting, or based on the flow rate. [NR 812.07(53)]

"Public water system" means a system for the provision to the public of piped water for human consumptions if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days per year. A public water system is either a community water system or a non-community water system. Such system includes: (a) Any collection, treatment, storage, and distribution facilities under control of the operator of such system and used primarily in connection with such system, and (b) Any collection or pretreatment storage facilities not under such control which are used primarily in connection with such system. [NR 812.07(80)]

"School" means a public or private educational facility in which a program of educational instruction is provided to children in any grade or grades from kindergarten through the 12th grade. Water systems serving athletic fields, school forests, environmental centers, home-based schools, day-care centers and Sunday schools are not school water systems. [NR 812.07(94)]

"Wastewater treatment plant" means any facility provided for the treatment of sanitary or industrial wastewater or both. The following types of facilities are excluded: (a) Facilities defined as private sewage systems in s. 145.01(12), Stats. (b) Pretreatment facilities from which effluent is directed to a public sewer system for treatment. (c) Industrial wastewater treatment facilities which consist solely of a land disposal system. [NR 114.03(14)]

3213 RANDALL T. I N.-R.19 PAGE 10 McHenry State of Wisconsin 125.91 OWERS LAKE Marvir Richter Conservation 5 Lelanda Bernelda Stohr (LC) 161 Partners Corp. Laurine John Stanley Jezion etux Mary Ann Thelen, etal Kolton 317 ELIZABETH KD NAN ROBER 32 Don Rowlins, Inc. Ray, Ur. 4 Voan Stoxen

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